

CODE:

class Car:

```
def __init__(self, color = "none", price = 0, size = "none"):
```

```
    self.__color = color
```

```
    self.__price = price
```

```
    self.__size = size.upper()
```

```
# Getter
```

```
def get_color(self) -> str:
```

```
    return self.__color
```

```
def get_price(self) -> float:
```

```
    return self.__price
```

```
def get_size(self) -> str:
```

```
    return self.__size
```

```
# Setter
```

```
def set_color(self, color: str) -> None:
```

```
    self.__color = color
```

```
def set_price(self, price: float) -> None:
```

```
    self.__price = price
```

```
def set_size(self, size: str) -> None:
```

```
    self.__size = size.upper()
```

```
def __str__(self) -> str:
```

```
    size_desc = ""
```

```
    if self.__size == 'S':
```

```
        size_desc = "small"
```

```
    elif self.__size == 'M':
```

```
        size_desc = "medium"
```

```
    elif self.__size == 'L':
```

```
        size_desc = "large"
```

```
    else:
```

```
        size_desc = "unknown"
```

```
    return f"Car ({self.__color}) - P{self.__price:,.2f} - {size_desc}"
```

Sample Outputs

```
if __name__ == '__main__':  
    car1 = Car("red", 19999.85, 'M')  
    print(f"Action: Invoking the Car class constructor using  
Car('{car1.get_color()}', {car1.get_price():.2f}, '{car1.get_size()}').")  
    print("Output:")  
    print(car1)  
    print()
```

```
car2 = Car("blue", 50000.00, 'L')  
print(f"Action: Invoking the Car class constructor using  
Car('{car2.get_color()}', {car2.get_price():.2f}, '{car2.get_size()}').")  
print("Output:")  
print(car2)  
print()
```

```
car3 = Car("green", 12345.67, 'S')  
print(f"Action: Invoking the Car class constructor using  
Car('{car3.get_color()}', {car3.get_price():.2f}, '{car3.get_size()}').")  
print("Output:")  
print(car3)
```

OUTPUT:

STDIN

Input for the program (Optional)

Output:

Action: Invoking the Car class constructor using Car('red', 19999.85, 'M').

Output:

Car (red) - P19,999.85 - medium

Action: Invoking the Car class constructor using Car('blue', 50000.00, 'L').

Output:

Car (blue) - P50,000.00 - large

Action: Invoking the Car class constructor using Car('green', 12345.67, 'S').

Output:

Car (green) - P12,345.67 - small